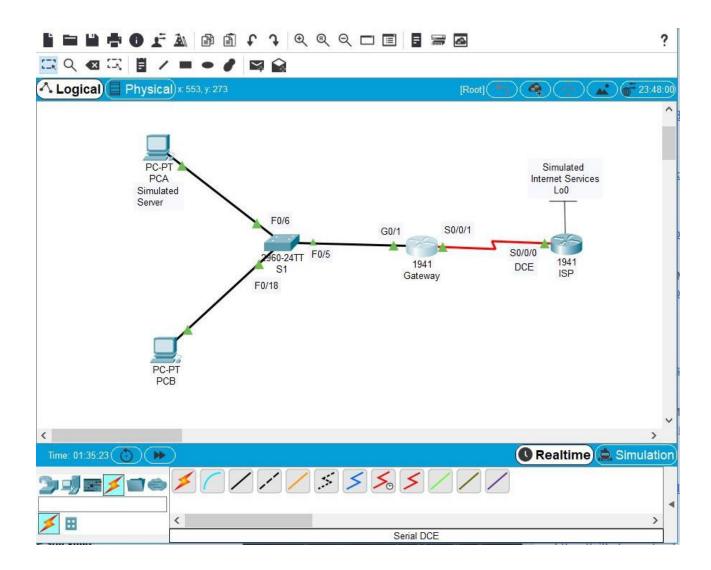
GROUP NO.: 1

Apeksha Chavan (2017130013) Roll No.: 2 Darshak Bali (2017130008) Roll No.: 1

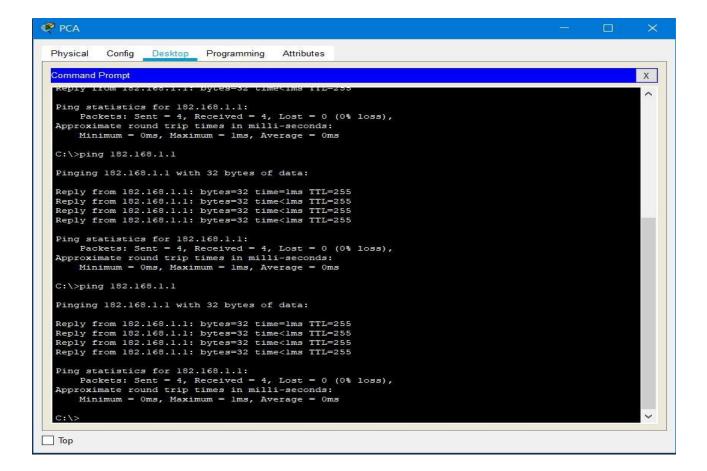
DCCN LAB ISE2

Task 1:

Final Network:



Pinging G0/1 interface on the gateway router from PCA:



Pinging G0/1 interface on the gateway router from PCB:

```
PCB PCB
   Physical
                        Config Desktop Programming
                                                                                        Attributes
   Command Prompt
                                                                                                                                                                                                                               Х
   Ping statistics for 182.168.1.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

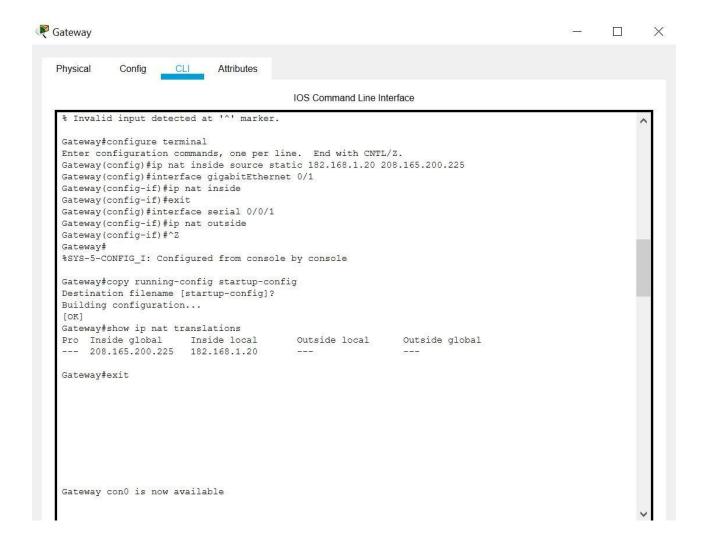
Minimum = 0ms, Maximum = 1ms, Average = 0ms
    C:\>ping 182.168.1.1
    Pinging 182.168.1.1 with 32 bytes of data:
    Reply from 182.168.1.1: bytes=32 time<lms TTL=255 Reply from 182.168.1.1: bytes=32 time<lms TTL=255 Reply from 182.168.1.1: bytes=32 time<lms TTL=255 Reply from 182.168.1.1: bytes=32 time=lms TTL=255
    Ping statistics for 182.168.1.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
    C:\>ping 182.168.1.1
    Pinging 182.168.1.1 with 32 bytes of data:
    Reply from 182.168.1.1: bytes=32 time=lms TTL=255 Reply from 182.168.1.1: bytes=32 time<lms TTL=255 Reply from 182.168.1.1: bytes=32 time<lms TTL=255 Reply from 182.168.1.1: bytes=32 time<lms TTL=255
    Ping statistics for 182.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = lms, Average = 0ms
Тор
```

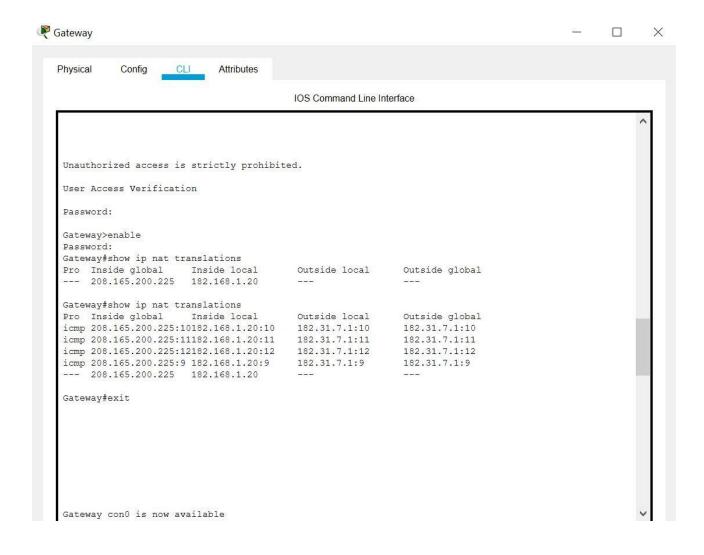
Task 2:

Pinging 182.31.7.1 from PC-A:

```
₽ PCA
                                                                                                                            X
   Physical
                 Config
                             Desktop
                                           Programming
                                                             Attributes
    Command Prompt
                                                                                                                                X
          Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
    C:\>ping 182.31.7.1
     Pinging 182.31.7.1 with 32 bytes of data:
     Reply from 182.31.7.1: bytes=32 time=16ms TTL=254
     Reply from 182.31.7.1: bytes=32 time=1ms TTL=254 Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
     Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
     Ping statistics for 182.31.7.1:
     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 16ms, Average = 4ms
     C:\>ping 182.31.7.1
     Pinging 182.31.7.1 with 32 bytes of data:
     Reply from 182.31.7.1: bytes=32 time=2ms TTL=254
     Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
     Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
     Ping statistics for 182.31.7.1:
          Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
     Approximate round trip times in milli-seconds:
          Minimum = 1ms, Maximum = 2ms, Average = 1ms
     C:\>telnet 182.31.7.1
     Trying 182.31.7.1 ...Open
     Unathorized access is strictly prohibited
     User Access Verification
```

The following shows the NAT translations' output:







Physical Config CLI Attributes IOS Command Line Interface Unauthorized access is strictly prohibited. User Access Verification Password: Gateway>enable Password: Gateway#show ip nat translations Pro Inside global Inside local --- 208.165.200.225 182.168.1.20 Outside local Outside global tcp 208.165.200.225:1025182.168.1.20:1025 182.31.7.1:23 182.31.7.1:23 Gateway#show ip nat translations Pro Inside global Inside local Outside local Outside global icmp 208.165.200.225:1 182.168.1.20:1 208.165.201.17:1 208.165.201.17:1 208.165.201.17:2 icmp 208.165.200.225:2 182.168.1.20:2 208.165.201.17:2 icmp 208.165.200.225:3 182.168.1.20:3 208.165.201.17:3 208.165.201.17:3 icmp 208.165.200.225:4 182.168.1.20:4 208.165.201.17:4 208.165.201.17:4 icmp 208.165.200.225:5 182.168.1.20:5 --- 208.165.200.225 182.168.1.20 208.165.201.17:5 208.165.201.17:5 tcp 208.165.200.225:1025182.168.1.20:1025 182.31.7.1:23 182.31.7.1:23

X

Gateway#show ip nat statistics

Total translations: 2 (1 static, 1 dynamic, 1 extended)

Outside Interfaces: Serial0/0/1 Inside Interfaces: GigabitEthernet0/1

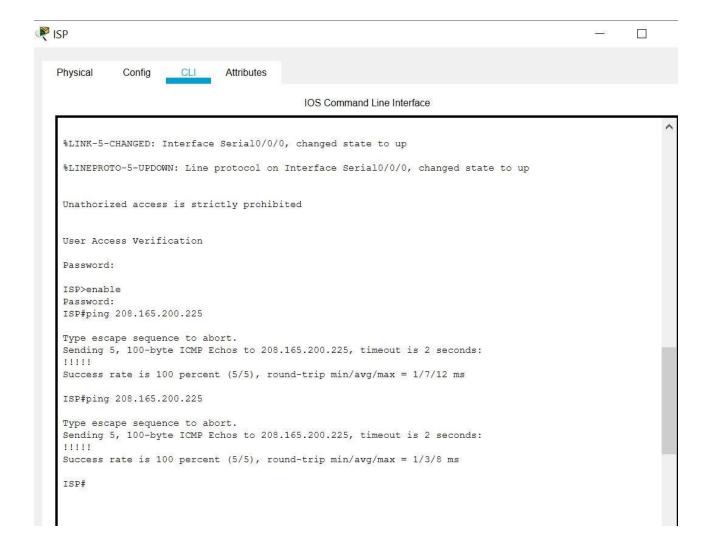
Hits: 158 Misses: 18 Expired translations: 17

Dynamic mappings:

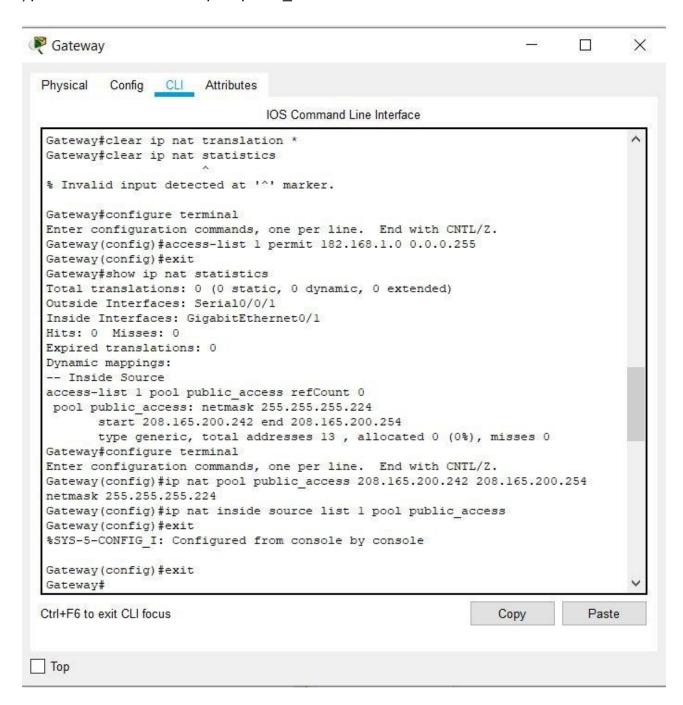
Gateway#

And shown below is the output of the ISP when we ping 208.165.200.225

```
PCA
                                                                                                                                           X
                                                                                                                                  Physical
                  Config
                               Desktop
                                             Programming
                                                                Attributes
     Command Prompt
                                                                                                                                      X
      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
          Minimum = 1ms, Maximum = 16ms, Average = 4ms
      C:\>ping 182.31.7.1
      Pinging 182.31.7.1 with 32 bytes of data:
     Reply from 182.31.7.1: bytes=32 time=2ms TTL=254
Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
      Reply from 182.31.7.1: bytes=32 time=1ms TTL=254
      Ping statistics for 182.31.7.1:
      Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
          Minimum = 1ms, Maximum = 2ms, Average = 1ms
     C:\>telnet 182.31.7.1
Trying 182.31.7.1 ...Open
      Unathorized access is strictly prohibited
     User Access Verification
      Password:
      ISP>enable
      Password:
     ISP#ping 208.165.200.225
      Type escape sequence to abort.
      Sending 5, 100-byte ICMP Echos to 208.165.200.225, timeout is 2 seconds:
      Success rate is 100 percent (5/5), round-trip min/avg/max = 1/3/10 ms
```



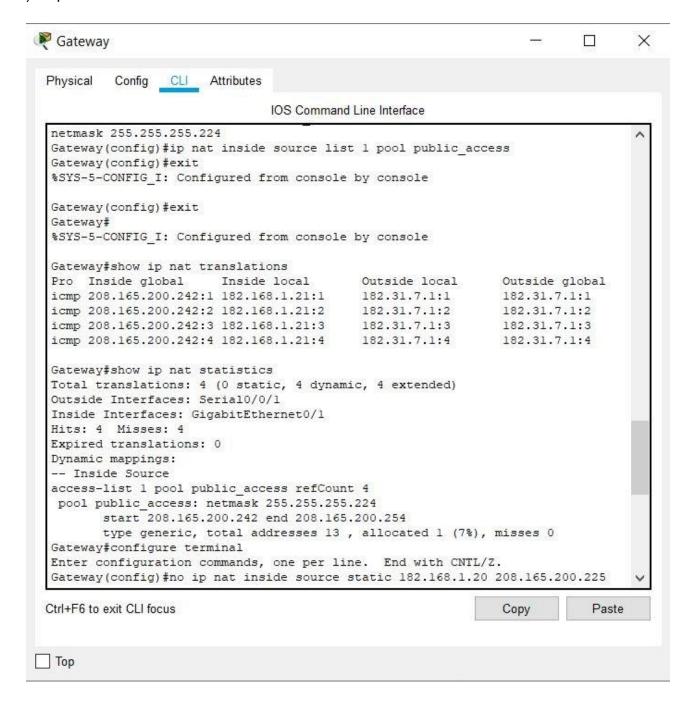
- 1)clear ip nat translation * clear ip nat statistics
- 2)access-list 1 permit 182.168.1.0 0.0.0.255
- 3)show ip nat statistics
- 4)ip nat pool public access 208.165.200.242 208.165.200.254 netmask 255.255.255.224
- 5)ip nat inside source list 1 pool public access



6) show ip nat translations

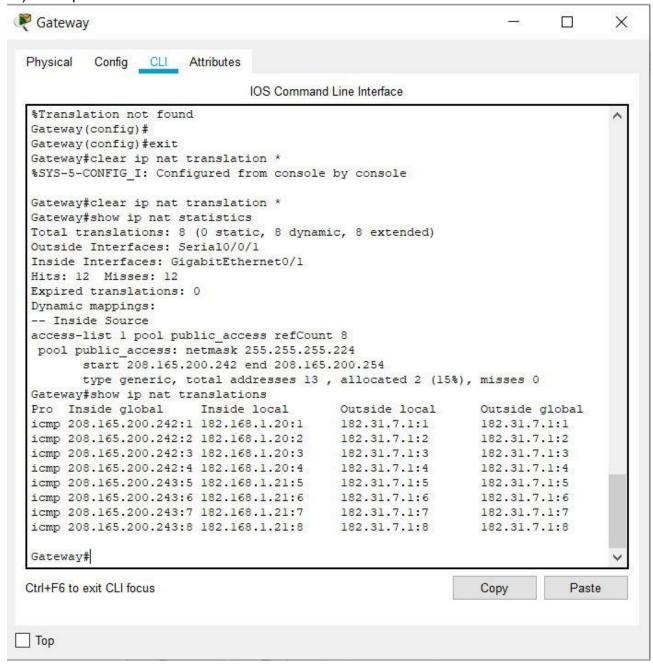
7) show ip nat statistics

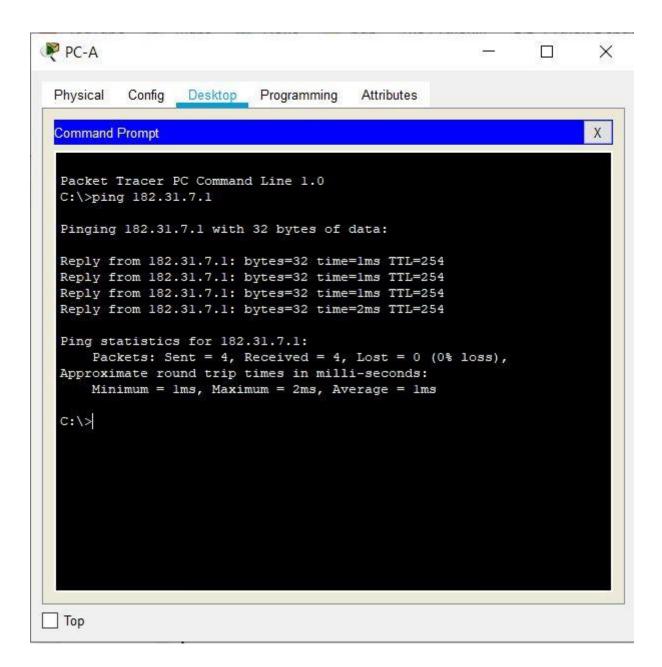
8)no ip nat inside source static 182.168.1.20 208.165.200.225



10) show ip nat statistics

11) show ip nat translations





ping 182.31.7.1 from PC-B:

